

Requester's Full Name: \_\_\_\_\_ Examiner #: \_\_\_\_\_ Date: \_\_\_\_\_  
Art Unit: \_\_\_\_\_ Phone Number 30 \_\_\_\_\_ Serial Number: \_\_\_\_\_  
Mail Box and Bldg Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.  
\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

\*\*\*\*\*  
**STAFF USE ONLY**

	Type of Search	Vendors and cost where applicable
Searcher: <u>P. Schubert</u>	NA Sequence (#) <u>2</u>	STN _____
Searcher Phone #: <u>277-2526</u>	AA Sequence (#) <u>1</u>	Dialog _____
Searcher Location: <u>Rensselaer</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>4/15</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>12</u>	Fulltext _____	Sequence Systems <u>Computer</u>



|||||TGTCCTACTGAGAACCATATTGATCTTGATAGATGTCAGAACAG 199  
 |||||TCGGCTACTTCGAAGGTTGACTGTGCGATGGGAGCTGTAACCATGCTTTCAC 240  
 |||||TCGGCTACTTCGAAGGTTGACTGTGCGATGGGAGCTGTAACCATGCTTTCAC 259  
 |||ACTGCGATCTCGCTGAGCTCAAACCGACAGGTGTCCATTGACAAAGAGAG 300  
 |||ACTGCGATCTCGCTGAGCTCAAACCGACAGGTGTCCATTGACAAAGAGAG 319  
 |||GATTCCAAAAGTATGGCACTAG 327  
 |||GATTCCAAAAGTATGGCACTAG 346

:377 Application US/102424535A

ATION:

androGene Inc.  
 ew, C.C.

ITION: Compositions and Methods Relatiing to Osteoarthritis  
 : 4231/2005  
 ATION NUMBER: US/10/242,535A  
 DATE: 2002-09-12  
 ION NUMBER: US 10/085,783  
 DATE: 2002-02-28  
 ION NUMBER: US 60/305,340  
 DATE: 2001-07-13  
 ION NUMBER: US 60/275,017  
 DATE: 2001-03-12  
 ION NUMBER: US 60/271,955  
 DATE: 2001-02-28  
 ID NOS: 58994  
 ntn in version 3.2  
 lan

arity 100.0%; Score 327; DB 15; Length 433;  
 Conservative 0; Pred. No. 2.1e-106; Indels 0;  
 Gaps 0;

:CGGGCACCGCATGGATGTGGATACCCGAGCGGCCACCAACACGGCCGGAAAGAG 60  
 :CGGGCACCGCATGGATGTGGATACCCGAGCGGCCACCAACACGGCCGGAAAGAG 79

TTTGAATGAAAGTGGAAATGGAGCTGGCCCTCTGGCCCTGGATATGGTTGAT 120  
 TTGAACTGAAAAGTGGAAATGGAGCTGGCCCTCTGGCCCTGGATATGGTTGAT 139

TGTGCCATTGAGAACCATATTGATCTTGATAGATGTCAGAACAG 180  
 TGTGCCATTGAGAACCATATTGATCTTGATAGATGTCAGAACAG 199

:TCCGCTACTTCGAAGGTTGACTGTGCGATGGGAGCTGTAACCATGCTTTCAC 240  
 :TCCGCTACTTCGAAGGTTGACTGTGCGATGGGAGCTGTAACCATGCTTTCAC 259

:ACTGCGATCTCGCTGAGCTCAAACCGACAGGTGTCCATTGACAAAGAGAG 300  
 :ACTGCGATCTCGCTGAGCTCAAACCGACAGGTGTCCATTGACAAAGAGAG 319

:GATTCCAAAAGTATGGCACTAG 327  
 :GATTCCAAAAGTATGGCACTAG 346

US-10-085-783A-35025  
 ; Sequence 35025, Application US/10085783A

; GENERAL INFORMATION:

; APPLICANT: ChondroGene Inc.

; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoart

; FILE REFERENCE: 4231/2002

; CURRENT APPLICATION NUMBER: US/10/085-783A

; CURRENT FILING DATE: 2002-02-28

; PRIORITY NUMBER: US 60/305,340

; PRIORITY NUMBER: US 60/275,017

; PRIORITY NUMBER: US 60/271,955

-In version 3.2

254 Application US/10085783A  
 US20040037841A1  
 TION: Compositions and Methods Relating to Osteoarthritis  
 : 4231/2002  
 IATION NUMBER: US 10/085,783A  
 DATE: 2002-02-28  
 ION NUMBER: US 66/305,340  
 IATE: 2001-07-13  
 ION NUMBER: US 60/275,017  
 DATE: 2001-03-12  
 ION NUMBER: US 60/271,955  
 IATE: 2001-02-28  
 ID NOS: 58994  
 in version 3.2  
 an  
 254

larity 100.0%; Score 327; DB 12; Length 471;  
 Conservat 100.0%; Pred. No. 2.2e-106; Indels 0; Gaps 0;

CGGGCAGCGATGGATGGATAACCCCGAGGGACCAACAGGGGGAAAGAG 60  
 CGGGCAGCGATGGATGGATAACCCCGAGGGACCAACAGGGGGAAAGAG 76  
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 TTGGAAGTGGAAAGTGGAAATGGAGGACCCCTGGGCTGGATATTTGGTGTAT 136  
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 TGTGCCATCTGAGGAAACCACATTATGGATCTTGGATAGATGGTCAAGCTAACAG 196  
 TCCGCTACTTCAGAAAGGTGTACTGTGCACTGGGAGCTCTGAACCTGTTTCAC 240  
 TCCGCTACTTCAGAAAGGTGTACTGTGCACTGGGAGCTCTGAACCTGTTTCAC 256  
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 GAAATCCAAAAGTATGGCACTAG 343

; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 57254  
; LENGTH: 471  
; TION: Human  
; TYPE: DNA  
; ORGANISM: Human  
; US-10-242-535A-57254  
; Query Match 100.0%; Score 327; DB 15; Length 471;  
; Best Local Similarity 100.0%; Pred. No. 2.2e-106;  
; Matches 327; Conservative 0; Mismatches 0; Indels 0;  
; QY 1 ATGCCGGCAGCGATGGATGGATAACCCCGAGGGACCAACAGGGGGACCI  
; Db 17 ATGGGGCGAGCGATGGATGGATAACCCCGAGGGACCAACAGGGGGACCI  
; QY 61 CGCTTTGAAAGTGGAAAAGTGGAAATGGCTAGGCTCTGGCCCTGGGATATTGTC  
; Db 77 CGCTTTGAAAGTGGAAAAGTGGAAATGGCTAGGCTCTGGCCCTGGGATATTGTC  
; QY 121 AACPTGCCCCATCTGAGGAAACCACATTGGACTTGCATAGATGTGAGGT  
; Db 137 AACTTGCCATCTGAGGAAACCACATTGGACTTGCATAGATGTGAGGT  
; QY 181 GCGTCGGTACTTCAGAAAGGTGTACTGTGCACTGGGAGCTCTAACCATGCT  
; Db 197 GCGTCGGTACTTCAGAAAGGTGTACTGTGCACTGGGAGCTCTAACCATGCT  
; QY 241 TTCCACTGCATCTCGCTGGCTCAAACACAGACAGGGTGTCATTTGGACACAG  
; Db 257 TTCCACTGCATCTCGCTGGCTCAAACACAGACAGGGTGTCATTTGGACACAG  
; QY 301 TGGGAAATTCCAAAAGTATGGCACTAG 327  
; Db 317 TGGGAAATTCCAAAAGTATGGCACTAG 343  
; RESULT 9  
; US-10-085-783A-56068  
; Sequence 56168, Application US/10085783A  
; Publication No. US20040037841A1  
; GENERAL INFORMATION:  
; APPLICANT: ChondroGene Inc.  
; ATTORNEY OR AGENT FOR APPLICANT: Liew, C. C.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoart  
; FILE REFERENCE: 4231/2002  
; CURRENT APPLICATION NUMBER: US/10/085,783A  
; CURRENT FILING DATE: 2002-02-28  
; PRIORITY APPLICATION NUMBER: US 60/395,340  
; PRIORITY FILING DATE: 2001-07-13  
; PRIORITY APPLICATION NUMBER: US 60/275,017  
; PRIORITY FILING DATE: 2001-03-12  
; PRIORITY APPLICATION NUMBER: US 60/271,955  
; PRIORITY FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 56068  
; LENGTH: 472  
; TION: Human  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (437)-(437)  
; OTHER INFORMATION: n is a, c, g, or t  
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; LOCATION: (435)-(435)  
; OTHER INFORMATION: n is a, c, g, or t  
; US-10-085-783A-56068  
; Query Match 100.0%; Score 327; DB 12; Length 472;  
; Best Local Similarity 100.0%; Pred. No. 2.2e-106;  
; Matches 327; Conservative 0; Mismatches 0; Indels 0;



Application US/10242535A  
 US20030013663A1  
 hydroGene Inc.  
 ew, C.C.  
 TION: Compositions and Methods Relating to Osteoarthritis  
 : 4231/2005  
 ATION NUMBER: US/10/242,55A  
 DATE: 2002-09-12  
 ION NUMBER: US 10/085,783  
 ATE: 2002-02-28  
 ION NUMBER: US 60/305,340  
 ATE: 2001-07-13  
 ION NUMBER: US 60/275,017  
 ATE: 2001-03-12  
 ION NUMBER: US 60/271,955  
 ATE: 2001-02-28  
 ID NOS: 5894  
 ntin version 3.2  
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 Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 3CGGCAAGCGATGGATCTGGATACCCGAGGGCACCAACGGGGGGCAAGAG 78  
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 3TTGAGGTGAAAAGTGGATGCACTAGGCCCTCTGGGATATTGGTGTAT 138  
 3GTGCATCTGCAGAACACATTGGATCTGGCATAGAATGTCAGCTAACAG 180  
 3GTGCATCTGCAGAACACATTGGATCTGGCATAGAATGTCAGCTAACAG 198  
 3CCGCTACTCTCGAGAGGTACTGCTGGATGGGAGGTGTGACCAATGCTTTCAC 240  
 3CCGCTACTCTCGAGAGGTACTGCTGGATGGGAGGTGTGACCAATGCTTTCAC 258  
 3ACTGCATCTCTCCCTGGCTCAAAACAGCAAGCTGGTCCATGGGACACAGAG 300  
 3ACTGCATCTCTCCCTGGCTCAAAACAGCAAGCTGGTCCATGGGACACAGAG 318  
 3AATTCCAAAAGTGGCACTAG 327  
 3AATTCCAAAAGTGGCACTAG 345

1 Application US/09918995  
 US2003007363A1  
 TION:  
 Q, Inc.  
 TION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
 20411-756  
 TION NUMBER: US/09/918,995  
 DATE: 2001-07-30  
 ID NOS: 1999-01-20  
 EQ for Windows Version 3.0  
 sapiens

1 Application US/09918995  
 US2003007363A1  
 TION:  
 Q, Inc.  
 TION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
 20411-756  
 TION NUMBER: US/09/918,995  
 DATE: 1999-01-20  
 D NOS: 38054  
 EQ for Windows Version 3.0  
 sapiens

;

FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: (11)-(476)

;

OTHER INFORMATION: n = A, T, C or G  
 US-09-918-995-17191

Query Match 99.4%; Score 325; DB 10; Length 476;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
 Matches 325; Conservative 0; Mismatches 0; Indels 0;

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 Db 74 GGGGGCAAGCGATGGATCTGGCATAGGCCCTCTGGGATATTGGTGT  
 Qy 63 CTTTGAAGTGAAGAAAGTGGAAATGCACTAGGCCCTCTGGGATATTGGTGT  
 Db 134 CTTTGAAGTGAAGAAAGTGGAAATGCACTAGGCCCTCTGGGATATTGGTGT  
 Qy 123 CTTGTGCACATCTGGAGAACACATTGGATCTGGATAGAATGTCAGCTAAC  
 Db 194 CTTGTGCACATCTGGAGAACACATTGGATCTGGATAGAATGTCAGCTAAC  
 Qy 183 GTCGCGTACTTCAGAAGAGTGTACTGTGGCATGGGAGTGTGCTGTAACATGCTTT  
 Db 254 GTCGCGTACTTCAGAAGAGTGTACTGTGGCATGGGAGTGTGCTGTAACATGCTTT  
 Qy 243 CCACTGGATCTCTCGCTGGCTAAACAGACAGGTGTGTCATTGGACAAGAGA  
 Db 314 CCACTGGATCTCTCGCTGGCTAAACAGACAGGTGTGTCATTGGACAAGAGA  
 Qy 303 GAAATTCCAAAAGTGGCACTAG 327  
 Db 374 GAAATTCCAAAAGTGGCACTAG 398

RESULT 14  
 US-10-198-846-11311/c  
 / Sequence 11311, Application US/10198846  
 / Publication No. US2003009974A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Lillie, James  
 / APPLICANT: Xu, Yongyao  
 / APPLICANT: Wang, Youhen  
 / APPLICANT: Steimann, Kathleen  
 / TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS  
 / TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, A  
 / TITLE OF INVENTION: THERAPY OF BREAST CANCER  
 / CURRENT APPLICATION NUMBER: MRI-049  
 / CURRENT FILING DATE: 2002-07-18  
 / PRIOR APPLICATION NUMBER: 60/306,220  
 / PRIOR FILING DATE: 2001-07-18  
 / NUMBER OF SEQ ID NOS: 14084  
 / SOFTWARE: FastSEQ for Windows Version 4.0  
 / SEQ ID NO: 11311  
 / LENGTH: 4543  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 US-10-198-846-11311

Query Match 98.4%; Score 321.8; DB 14; Length 4543;  
 Best Local Similarity 99.4%; Pred. No. 4.6e-104;  
 Matches 323; Conservative 0; Mismatches 2; Indels 0; C

Qy 3 GGGGGCAAGCGATGGATCTGGCATAGGCCCTCTGGGATATTGGTGT  
 Db 1089 GGGGGCAAGCGATGGATCTGGCATAGGCCCTCTGGGATATTGGTGT  
 Qy 63 CTTTGAAGTGAAGAAAGTGGAAATGCACTAGGCCCTCTGGGATATTGGTGT  
 Db 1029 CTTTGAAGTGAAGAAAGTGGAAATGCACTAGGCCCTCTGGGATATTGGTGT  
 Qy 123 CTTGTGCACATCTGGAGAACACATTGGATCTGGATAGAATGTCAGCTAAC

51  
pplication US/10085783A  
110040037841A1  
ON:  
ProGene Inc.  
J. C. C.  
1. C. C.  
ON: Compositions and Methods Relating to Osteoarthritis  
4231/2002  
NUMBER: US/10/085,783A  
DATE: 2002-02-28  
NUMBER: US 60/305,340  
DATE: 2001-07-13  
NUMBER: US 60/275,017  
DATE: 2001-03-12  
NUMBER: US 60/271,955  
DATE: 2001-02-28  
NOS: 58994  
In version 3.2

1	96.6% similarity conservative	Score 316; Pred. No. 1.8e-102; o; Mismatches 0;	DB 12; Length 430; Indels 1; Gaps 1;
	GGCAGCGATGATGTGGATACCCGAGGGACCAACAGCCGGGGCAAGAG	60	
	GGCAGCGATGATGTGGATACCCGAGGGACCAACAGCCGGGGCAAGAG	80	
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	TGAGTGAAAAGTGGAAATCAGTAGCCCTCTGGCCCTGGGAATTGGTTGAT	140	
	TGCCATCTGAGGACCACTATTGGATCTTGGATAGATGTAAGCTTA-CCA	179	
	TGCCATCTGAGGACCACTATTGGATCTTGGATAGATGTAAGCTTA-CCA	200	
	TGCCATCTGAGGACCACTATTGGATCTTGGATAGATGTAAGCTTA-CCA	200	
	CCGGTACTCTAGAGTGTACTCTGCGATGGGAGTCCTGTAACCCTTCTCA	239	
	CCGGTACTCTAGAGTGTACTCTGCGATGGGAGTCCTGTAACCCTTCTCA	260	
	ACTCGCATCTCTCGCTGGCTAAACACCGACAGGTGTGTCATGGACACAGA	299	
	ACTCGATCTCTGCTGGCTAAACACCGACAGGTGTGTCATGGACACAGA	320	
	AAATTCCAAAGATGGGCCACTAG	327	
	AAATTCCAAAGATGGGCCACTAG	348	





GTGCGCGGTGCGGTGAGGGCGCAAGCCGCTCGAGATCATGGGGTCAATCT 410  
 ;CCCTCTGGCTGGATATTGTGTTGATAACTGTGCCATCTGAGGACACA 145  
 ;GCCCAAGGCCGCGAGGTCAATGGTCAAGTCGAGATCAGGGCATCTGCCA 469

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3CGTGCCTGGCGCTGGATATTGGTGTGATAACTGGCATTGGAGTCATCT 410  
AGCCCTCTGGCCCTGGATATTGGTGTGATAACTGGCATTGGAGTCATCT 415  
AGGCCAAAGCCGGAGCTGGATCATGGGATCAAGGCCATCTGGCACA 469

RE  
US  
;  
; location US/09192983A  
244  
;  
; TION: chue, Timothy  
; der, Robert  
; thuhn, Vernon  
; TION: Microbial System for Formaldehyde Sensing and  
; Remediation  
; 960296\_95505  
; ATION NUMBER: US/09/192,983A  
; DATE: 1998-11-16  
; ATION NUMBER: 08/919,953  
; DATE: 1997-08-29  
; ATION NUMBER: 08/608,241  
; DATE: 1996-02-28  
; ID NOS: 7  
; itIn Ver. 2.1

lobacter sphaerooides

signal

;) ..(267)

signal

;) ..(290)

;) ..(1476)

larity 9.5%; Score 31; DB 3; Length 2408;  
; conservative 0; Mismatches 55; Indels 0; Gaps 0;

AGGGCAACAAACAGGGGGCAAGAGGCGTTTGAAGTGGAAAGTGGAAATG 86

CGTGCCTGGCCCTGGGATATTGGTGTGATAACTGGCATTGGAGTCATCT 410

AGCCCTCTGGCCCTGGGATATTGGTGTGATAACTGGCATTGGAGTCATCT 415

AGGCCAAAGCCGGAGCTGGATCATGGGATCAAGGCCATCTGGCACA 469

RE

US  
; application US/09621976

;) ..(63)

; TION:

; Milne Edwards, J.B.

; err, S.

; ordano, J.Y.

; TION: ESTs and Encoded Human Proteins

; GENSET:054PR2

; ATION NUMBER: US/09/621,976

; DATE: 2000-07-21

; ID NOS: 19335

; it .pm

larity 53.8%; Pred. No. 0.94; Score 31; DB 3; Length 2408;  
; conservative 0; Mismatches 55; Indels 0; Gaps 0;

AGGGCAACAAACAGGGGGCAAGAGGCGTTTGAAGTGGAAAGTGGAAATG 86

CGTGCCTGGCCCTGGGATATTGGTGTGATAACTGGCATTGGAGTCATCT 410

AGCCCTCTGGCCCTGGGATATTGGTGTGATAACTGGCATTGGAGTCATCT 415

AGGCCAAAGCCGGAGCTGGATCATGGGATCAAGGCCATCTGGCACA 469

RE

US  
; application US/09621976

;) ..(163)

; TION:

; Milne Edwards, J.B.

; err, S.

; ordano, J.Y.

; TION: ESTs and Encoded Human Proteins

; GENSET:054PR2

; ATION NUMBER: US/09/621,976

; DATE: 2000-07-21

; ID NOS: 19335

; it .pm

RE

US  
; Query Match 9.2%; Score 30; DB 4; Length 534;  
; Best Local Similarity 57.4%; Pred. No. 0.91; Mismatches 40; Indels 0;  
; Matches 54; Conservative 0; GENERAL INFORMATION:  
; Qy 79 TGGAAATGCAAGTGGCCCTCTGGACCTGGATATTGGTGTGATAACTGGCATTCT  
; Db 127 TGGAAAGCGGTGGCCATTGGTGTGGCAACCATGAGAACTGTGGCATCT  
; Qy 139 AACCAATTATGGATCTTGGATAGATGTCAAG 172  
; Db 187 ATGGCATTAAACGGATCTGGCCCTGACTGCAAGG 220

RESULT 9

US-09-599-360B-27

; Sequence 27, Application US/09599360B

; Patent No. 6548633

; APPLICANT: Bouqueleret, L.

; INVENTOR: Jobert, S.

; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Sig

; FILE REFERENCE: GENSET:050CP3

; CURRENT APPLICATION NUMBER: US/09/599,360B

; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 60/113,686

; PRIOR FILING DATE: 1998-12-22

; PRIOR APPLICATION NUMBER: 60/141,032

; PRIOR FILING DATE: 1999-06-25

; PRIOR APPLICATION NUMBER: 09/469,099

; PRIOR FILING DATE: 1999-12-21

; NUMBER OF SEQ ID NOS: 123

; SOFTWARE: Patent .pm

; SEQ ID NO: 27

; LENGTH: 648

; TYPE: DNA

; ORGANISM: Homo Sapiens

; FEATURE: CDS

; NAME/KEY: CDS

; LOCATION: 187..438

; NAME/KEY: polyA signal

; LOCATION: 612..617

; NAME/KEY: polyA site

; LOCATION: 632..648

US-09-599-360B-27

RE

US  
; Query Match 9.2%; Score 30; DB 4; Length 648;  
; Best Local Similarity 57.4%; Pred. No. 1; Mismatches 40; Indels 0;  
; Matches 54; Conservative 0; GENERAL INFORMATION:  
; Qy 79 TGGAAATGCAAGTGGCCCTCTGGACCTGGATATTGGTGTGATAACTGGCATTCT  
; Db 208 TGGAAAGCGGTGGCCATTGGTGTGGCAACATGAGAACTGTGGCATCT  
; Qy 139 AACCAATTATGGATCTTGGATAGATGTCAAG 172  
; Db 268 ATGGCATTAAACGGATCTGGCCCTGACTGCAAGG 301

RESULT 10

US-09-621-976-1945

; Sequence 1945, Application US/09621976

; Patent No. 6639053

; GENERAL INFORMATION:

3 Milne Edwards, J.B.

ert, S.

dano, J.Y.

ION: ESTs and Encoded Human Proteins.

GENSET 054PR2

ITION NUMBER: US/09/621,976

DATE: 2000-07-21

NOS: 19335

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530  
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521

ON: Von Heijne matrix

ON: score 3.799995231628

ON: seq RLLPAGADGCGW/QR

irity 9.2%; Score 30; DB 4; Length 654;

nservative 57.4%; Pred. No. 1;

; Mismatches 40; Indels 0; Gaps 0;

TGAGTACCCCTGGCTGGATATGTTGATAAACCTGGCATCTGAGG 138  
CGCGTGCCACTGGCTCTGGTGGCAACCGATGAGAACCTGGCATCTGAGG 275

CATTATGATCTTGTGATAGAATGTCAG 172

ATTTAAGGATGTCGCTGACTGCAAG 309

plication US/09621976

3

ON: Milne Edwards, J.B.

rt, S.

dano, J.Y.

ION: ESTs and Encoded Human Proteins.

GENSET 054PR2

ITION NUMBER: US/09/621,976

DATE: 2000-07-21

NOS: 19335

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sapiens

547  
epptide

424

ON: Von Heijne matrix

ON: score 4.1999980926514

ON: seq IILKMLHATAGAAA/LP

irity 9.2%; Score 30; DB 4; Length 671;

nservative 55.9%; Pred. No. 1;

; Mismatches 45; Indels 0; Gaps 0;

TGCACTAGCCCTGGCTGGATATGTTGATAAACCTGGCATCTGAGG 138  
CGCGTGCCACTGGCTGGTGGCAAGATGAGAACCTGGCATCTGAGG 288

CATTATGATCTTGTGATAGAATGTCAGTAACTGCAACCAG 180

Db 289 ATGGCATTAAACGATGGCTGCCCTGACTGCAAGGCCCGG 330

RESULT 12

US-09-333-381-1814/C

Sequence 1814, Application US/09833381

; Patent No. 6672116

GENERAL INFORMATION

; APPLICANT: Robison, Keith E.

; TITLE OF INVENTION: No. 667211861 Nucleic Acid and Protein Homologs

; FILE REFERENCE: 5800-119

; CURRENT APPLICATION NUMBER: US/09/833,381

; CURRENT FILING DATE: 2001-04-11

; PRIORITY APPLICATION NUMBER: 09/516,448

; PRIORITY FILING DATE: 2000-02-29

; NUMBER OF SEQ ID NOS: 2050

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO: 1814

; LENGTH: 738

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(738)

; OTHER INFORMATION: n = A, T, C or G

US-09-333-381-1814

Query Match 9.2%; Score 30; DB 4; Length 738;

; Best Local Similarity 57.4%; Pred. No. 1.1;

; Mismatches 40; Indels 0; G

; Matches 54; Conservative 0; Mismatches 40; Indels 0; G

US-09-333-381-1814

Qy 79 TGGAAATGAGPAGCCCTGCGGATATGGCTGATACTGTCATCTG

; Matches 54; Conservative 0; Mismatches 40; Indels 0; G

Db 539 TGGAAACCGGGCGCCACTGCTGCTGGTGGCAACATGAGAACTGTGGCATCTG

; Matches 55; Conservative 0; Mismatches 40; Indels 0; G

Qy 139 AACACATATTGATCTTGCATAGAATGTCAG 172

; Matches 55; Conservative 0; Mismatches 40; Indels 0; G

Db 479 ATGGCATTAAACGATCTGCTGACTGCAAG 446

; LENGTH: 708

; TYPE: DNA

; ORGANISM: Klebsiella pneumoniae

US-09-489-039A-6887

RESULT 13

US-09-489-039A-6887/C

; Sequence 6887, Application US/09489039A

; Patent No. 6610836

; GENERAL INFORMATION

; APPLICANT: Gary Breton et. al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING

; TITLE OF REFERENCE: PNEUMONIA FOR DIAGNOSTICS AND THERAPEUTICS

; CURRENT APPLICATION NUMBER: US/09/0014001

; CURRENT FILING DATE: 2000-01-27

; PRIORITY APPLICATION NUMBER: US/09/489,039A

; PRIORITY FILING DATE: 1999-01-29

; NUMBER OF SEQ ID NOS: 14342

; SEQ ID NO: 6887

; LENGTH: 708

; TYPE: DNA

; ORGANISM: Klebsiella pneumoniae

US-09-489-039A-6887

Query Match 8.9%; Score 29.2%; DB 4; Length 708;

; Best Local Similarity 56.1%; Pred. No. 2.1;

; Mismatches 43; Indels 0; G

; Matches 55; Conservative 0; Mismatches 43; Indels 0; G

US-09-489-039A-6887

Qy 22 GATACCCGAGGGACCAAAGCGGGCGAGAGGGCTTGTGAACTGAAAC

; Matches 55; Conservative 0; Mismatches 43; Indels 0; G

Db 252 GAAGTGCACATGGGGCAAGCAGCGGCAAAAGCCCTCTGCTTTAAGCA

; Matches 55; Conservative 0; Mismatches 43; Indels 0; G

Qy 82 ATGAGTAGTACGCCCTGGCTGGATATGTTGAACTGTGGTGA 119

; Matches 55; Conservative 0; Mismatches 43; Indels 0; G

Db 192 ATAAAACGACCCCTTGGCAGGGATATCTGTGATCA 155

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us-09-541-462b-1.apr14.rni

45/c  
Application US/09543681A  
709  
ITION:  
Y BRETON  
TION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
: 2709.1002-001  
ATION NUMBER: US/09/543,681A  
DATE: 2000-04-05  
ION NUMBER: US 60/128,706  
ATE: 1999-04-09  
ID NOS: 8344

teus mirabilis  
45

8.9%; Score 29.2; DB 4; Length 1314;

larity 51.5%; Pred. No. 3; Conservat 0; Mismatches 63; Indels 0; Gaps 0;

JCAACAGGGGGGGCGCAAGAAGCCCTTGAAGTCAAATGGAAATGGATGAGTAGGCC 94  
JCAACAGTATCTGCAACAAATAGGCCCTAAATGGTCAAAGGGTTTATTGAGTGGCA 240

3GGCTGGATATGGTGGTGTAACTGTGCCATTGGAGAAACACATTATGGATC 154  
DAGGCACTCACAATACGATTCTAAATTCTGATTTACGATTATACAGATTATCAAAG 180

3CATAGA 164  
rrATAGA 170

547  
lication US/095436727

ATION:  
ROSENMAN, SAUL  
BASSLER, BONNIE  
CEYHANI, NEMAT O.  
CHITLARI, EDITH  
ROWE, CHRIS  
TU, CHARLES  
ENTION: BACTERIAL CATABOLISM OF CHITIN  
QUENCES: 8  
RE ADDRESS:  
CUSHMAN, DABY & CUSHMAN  
.00 NEW YORK AVENUE, N.W.  
INGTON  
USA

547  
,248  
ATION FORM:  
;: Floppy disk  
IBM PC compatible  
;SYSTEM: PC-DOS/MS-DOS  
Patent In Release #1.0, Version #1.25  
[CATION DATA:  
J NUMBER: US/09/386,727  
;:  
CION: 445  
JT INFORMATION:  
3S, ANN S.  
IN NUMBER: 36,830  
DOCKET NUMBER: 4130/206916  
ITION INFORMATION:  
202-861-3000



DATE: 2000-07-21  
 ID NOS: 19335  
 nt.pm

sapiens  
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 7

larity 30.0%; Score 185; DB 4; Length 112;  
 Conservative 13; Mismatches 28; Indels 8; Gaps 2;  
 VIKRNVALWANDIVDCAICRNHIMDLCIECQANQAATSEECTVAGVCNHAHF 80  
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 IKCNGVATLWVANDENGCICRMAFNGCCPDKC---VPGDDCPLVWGCSCSHCFH 56  
 |SRWLKTRQV -- CPL 96  
 :|||:|||:|||:  
 ILKNLHAAQQVQQHCEM 75

5 Application US/09621976  
 063  
 TION: as Milne Edwards, J.B.  
 ert, S.  
 ordano, J.Y.  
 RTION: ESTs and Encoded Human Proteins.  
 : GENSET.054PR2  
 ATION NUMBER: US/09/621,976  
 DATE: 2000-07-21  
 ID NOS: 19335  
 nt.pm

sapiens  
 VAL  
 2..-1  
 5

larity 30.0%; Score 185; DB 4; Length 112;  
 Conservative 13; Mismatches 28; Indels 8; Gaps 2;  
 VIKRNVALWANDIVDCAICRNHIMDLCIECQANQAATSEECTVAGVCNHAHF 80  
 :|:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 IKCNGVATLWVANDENGCICRMAFNGCCPDKC---VPGDDCPLVWGCSCSHCFH 56  
 |SRWLKTRQV -- CPL 96  
 :|||:|||:  
 ILKNLHAAQQVQQHCEM 75

7 NUMBER OF SEQ ID NOS: 19335  
 SOFTWARE: Patent-pm  
 SEQ ID NO: 5714  
 LENGTH: 94  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE: NAME/KEY: SIGNAL  
 LOCATION: -53..-1  
 NAME/KEY: UNSURE  
 LOCATION: 14  
 OTHER INFORMATION: Xaa = Glu, Gln  
 US-09-621-5714

Query Match 17.1%; Score 105.5; DB 4; Length 94;  
 Best Local Similarity 36.8%; Pred. No. 0.00022;  
 Matches 15; Conservative 8; Mismatches 13; Indels 5;  
 QY 48 HMDLCIECQANQAATSEECTVAGVCNHAHFHCTSRWL 88  
 Db 10 HITDAADCK---VPGDDCPLVWGCSCSHCFHCLLKWL 45

RESULT 5  
 US-09-268-140-2  
 Sequence 2, Application US/09268140  
 Patent No. 628176

GENERAL INFORMATION:  
 APPLICANT: Gemmill, Robert M.  
 APPLICANT: Drabkin, Harry A.  
 TITLE OF INVENTION: TRC8, A GENE RELATED TO THE HEDGEHOG RECEPTOR  
 FILE REFERENCE: 93445-00004  
 CURRENT APPLICATION NUMBER: US/09/268,140  
 CURRENT FILING DATE: 2000-03-12  
 PRIOR APPLICATION NUMBER: US 60/077,723  
 PRIOR FILING DATE: 1998-03-12  
 NUMBER OF SEQ ID NOS: 46  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO: 2  
 LENGTH: 664  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-268-140-2

Query Match 13.8%; Score 85; DB 3; Length 664;  
 Best Local Similarity 28.6%; Pred. No. 0.34;  
 Matches 24; Conservative 10; Mismatches 22; Indels 28;

QY 20 KRFEVKRNAVALWANDI-----VVDNCAICRNHIMDLCIECQANQAATSEE  
 Db 522 RRTAVKXINSLP---EIKGSRQLQEINDVCRICYHFR-----TTSAR

QY 73 GVCNHAHFHCTSRWLKTRQVCP 96  
 Db 562 -PCNHYHALCURKWLWYQDTCPM 584

RESULT 6  
 US-09-325-932A-49  
 Sequence 49, Application US/09325932A  
 Patent No. 6451604

GENERAL INFORMATION:  
 APPLICANT: Flynn, Barry  
 APPLICANT: Lasham, Annette  
 TITLE OF INVENTION: Compositions affecting programmed cell  
 TION: death and their use in the modification of fo:  
 TURE: 1022  
 CURRENT APPLICATION NUMBER: US/09/325,932A  
 CURRENT FILING DATE: 1999-06-04  
 NUMBER OF SEQ ID NOS: 206  
 SOFTWARE: FastSPQ for Windows Version 3.0  
 SEQ ID NO: 49  
 LENGTH: 104

4 Application US/09621976  
 063  
 TION: as Milne Edwards, J.B.  
 ert, S.  
 ordano, J.Y.  
 RTION: ESTs and Encoded Human Proteins.  
 : GENSET.054PR2  
 ATION NUMBER: US/09/621,976  
 DATE: 2000-07-21

radiata

irity 13.5%; Score 83; DB 4; Length 104;  
 mpatory 30.9%; Pred. No. 0.071; Length 104;  
 nservative 4; Mismatches 20; Indels 14; Gaps 1;  
 NHIMDLCLIECQANQASATSEECTVANGVCNHAFFHCISRWLKTROVCPL 96  
 :SKFEDI-----ETIRLLPKCRHAFHDIDTQDYNLEKHSSCPL 65

4  
 ON:  
 E SILVA, OSVALDO DA  
 EST, HANS J.  
 THIELEN, NOCHA  
 I, ROUTING  
 ON: TRANSCRIPTION FACTOR STRESS-RELATED PROTEINS AND  
 ON: METHODS OF USE IN PLANTS  
 163113-0030  
 TION NUMBER: US/09/828,303  
 DATE: 2001-08-20  
 IN NUMBER: 60/196,001  
 E: 2000-04-07  
 NOS: 79  
 In Ver. 2.1

:omitrella patens

irity 13.5%; Score 83; DB 4; Length 337;  
 mpatory 29.3%; Pred. No. 0.27; Length 337;  
 nservative 7; Mismatches 20; Indels 14; Gaps 2;  
 .ICRNHIMDLCLIECQANQASATSEECTVANGVCNHAFFHCISRWLKTROVCPL 96  
 :VCL-----EFELGKGRTLPK-----CDHSFPLDC2DMWLSHSTCPL 128

5  
 cation US/087866666  
 5  
 TON:  
 llman, Jennifer L.  
 -Young, Janice  
 leman, Roger  
 li, Surya K.  
 TION: NOVEL HUMAN ZINC-BINDING  
 TION: PROTEINS  
 ENCES: 9  
 ADDRESSEES:  
 Incyte Pharmaceuticals, Inc.  
 4 Porter Drive  
 Alto

CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 REFERENCE/DOCKET NUMBER: PF-0173 US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-855-0555  
 TELEFAX: 415-845-4166  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 180 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-786-606-3

Query Match 13.0%; Score 80; DB 2; Length 180;  
 Best Local Similarity 28.2%; Pred. No. 0.28;  
 Matches 29; Conservative 12; Mismatches 18; Indels 44; G  
 Qy 1 MAAMAMDVD-TPSGTN--SGACKRFEVKKNAVALWADIVVDNCAICRNHIMDL  
 Db 1 MAABEEEDGGPGSPNFRGGG-ATPB-----CNI  
 Qy 57 QANQASATSEECTVANGVCNHAFFHCISRWLKT---RQVCPL 96  
 Db 33 -----TAREAVS--VCGHLYCNPCLHOWLETRPERQECPV 66

RESULT 9  
 US-08-933-750C-48  
 Sequence 48, Application US/08933750C  
 GENERAL INFORMATION:  
 Patent No. 592442  
 APPLICANT: Lai, Preeti  
 APPLICANT: Bandman, Olga  
 APPLICANT: Shar, Purvi  
 APPLICANT: Au-Young, Janice  
 APPLICANT: Yue, Henry  
 APPLICANT: Guegler, Karl J.  
 APPLICANT: Corley, Neil C.  
 TITLE OF INVENTION: HUMAN REGULATORY MOLECULES  
 NUMBER OF SEQUENCES: 98  
 CORRESPONDENCE ADDRESS:  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94304  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/933,750C  
 FILING DATE: September 23, 1997  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 REFERENCE/DOCKET NUMBER: PF-0356 US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-855-0555

415-845-4166

SEQ ID NO: 48:  
CHARACTERISTICS:  
80 amino acids  
no acid  
ss: single  
linear  
SOURCE:  
TESTINOT7  
17567

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13.0%; Score 80; DB 2; Length 180;
 28.2%; Pred. No. 0.28;
Conservative 12; Mismatches 18; Indels
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-----TARDAVVS---VCHLYCPWCLQWNLTRPEQECVP 66

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APPLICATION DATA:  
IN NUMBER: US/09/234,613

卷之三

## SECTION:

NUMBER: 05/08/933,750  
SEARCHED INDEXED SERIALIZED FILED  
SANTO DOMINGO, 22-1-87

SEE NUMBER 23, 1991

HUMAN DIVERSITY

CON NUMBER: 36: 749

DOCKET NUMBER: PF-0356 US

## ATTACHMENT INFORMATION:

415-855-0555

15-845-4166

3 SEO ID NO: 48:

## CHARACTERISTICS:

30 amino acid  
no acid

RIGHTS



415-855-0555  
15-845-4166  
SEQ ID NO: 1  
CHARACTERISTICS:  
11 amino acids  
o acid  
S: single  
linear  
MARNOT02  
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IBIBI Compatible			
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FORMAT:	FORMAT: 3.6		
LOCATION DATA:	LOCATION: 1055 41ST		
NUMBER:	NUMBER: US/01		
FILED HERE:	FILED: Herew		
LOCATION DATA:			
NUMBER:			
F			
T INFORMATION:			
LINES. LUCY J.			
NAME NUMBER:	NAME NUMBER: 36		
SOCKET NUMBER:	SOCKET NUMBER: 1055		
LOCATION INFORMATION			
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416-845-4166	416-845-4166		
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1818			

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 Conservativeness 29.3%; Pred. No. 0.84; Mismatches 10; Indels 15; Gaps 16; Gaps 3;

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96.118 Million cell updates/sec

09-541-462B-2

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1082010

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## ALIGNMENTS

RESULT 1

US-09-826-312-6

Sequence 6, Application US/09826312

Patent No. US002004203A1

GENERAL INFORMATION:

APPLICANT: Issakani, Sarkiz D.

APPLICANT: Huang, Jianing

APPLICANT: Sheung, Julie

APPLICANT: Pray, Todd R.

TITLE OF INVENTION: UBIQUITIN LIGASE ASSAY

FILE REFERENCE: A-68613-1.RMS/JJD

CURRENT APPLICATION NUMBER: US/09/826, 312

CURRENT FILING DATE: 2001-04-03

PRIOR FILING DATE: 2000-04-03

PRIOR FILING DATE: 2000-04-03

NUMBER OF SEQ ID NOS: 17

SOFTWARE: PatentIn version 3.1

SEQ ID NO: 6

LENGTH: 108

TYPE: PRT

ORGANISM: Homo sapiens

US-09-826-312-6

Query Match 100.0% ; Score 616; DB 9; Length 108;

Best Local Similarity 100.0% ; Pred. No. 8.9e-61;

Matches 108; Conservative 0; Mismatches 0; Indels 0; G:

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Db 1 MAAAMDVDTPSGTNSGAGKRFEVKKWNAVALWANDIVDNCAICRNHMDLCIEC

Qy 61 ASATSECTVAGVCNHAHPHCISRWLKTRQVCPILDNREMEFQKXGH 108

Db 61 ASATSECTVAGVCNHAHPHCISRWLKTRQVCPILDNREMEFQKXGH 108

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SUMMARIES

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0	108	9	US-09-826-312-6	Sequence 6, Appli
1.0	108	14	US-10-108-767-6	Sequence 6, Appli
1.0	108	14	US-10-152-156-6	Sequence 6, Appli
1.2	118	12	US-10-424-559-148916	Sequence 148916,
1.2	152	12	US-10-424-559-221431	Sequence 221431,
1.3	106	12	US-10-424-559-148915	Sequence 148915,
1.8	75	12	US-10-424-559-230014	Sequence 230014,
1.4	118	9	US-0-764-864-826	Sequence 826, Ap
1.4	131	9	US-0-764-864-1285	Sequence 1285, Ap
1.6	64	12	US-10-424-559-238320	Sequence 238320,
1.6	113	9	US-09-826-312-8	Sequence 8, Appli
1.6	113	14	US-10-424-559-767-8	Sequence 8, Appli
1.6	68	12	US-10-424-556-8	Sequence 8, Appli
1.8	40	12	US-10-424-559-264079	Sequence 242288,

RESULT 2

US-10-108-767-6

lication US/10108767  
 TION: US2003104474A1  
 akani, Sarkiz D.  
 ang, Jiani  
 eung, Julie  
 ay, Todd R.  
 TION: ASSAYS FOR IDENTIFYING UBIQUITIN AGENTS AND FOR IDENTIFYING AGENT  
 : A-8613-5/RMS/DCF  
 ATION: MODIFY THE ACTIVITY OF UBIQUITIN AGENTS  
 ATION NUMBER: US 10/108,767  
 DATE: 2002-09-26  
 ID NOS: 27  
 ION NUMBER: US 09/542,497  
 DATE: 2000-04-03  
 ION NUMBER: US 09/826,312  
 DATE: 2001-04-03  
 ION NUMBER: US 10/091,139  
 DATE: 2002-03-04  
 ID NOS: 27  
 natin version 3.1

○ sapiens

Score 100.0%; Score 616; DB 14; Length 108;  
 Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 AMDVDTPSGTNSGAGKRRFEVKKNNAVALWANDIVDNCACIRHIMDLCTECANO 60  
 TSEEECTVAVGVCNHAAPHFC1SRMLKTRQVCPLDNREWEFOKYGH 108  
 TSEEECTVAVGVCNHAAPHFC1SRMLKTRQVCPLDNREWEFOKYGH 108

lication US/10152156  
 TION: US2003108947A1  
 akani, Sarkiz D.  
 ang, Jiani  
 eung, Julie  
 ay, Todd R.  
 TION: ASSAYS FOR IDENTIFYING UBIQUITIN AGENTS AND FOR IDENTIFYING AGENT  
 : A-8613-6/RMS/DCF  
 ATION NUMBER: US 10/152,156  
 DATE: 2002-05-20  
 ION NUMBER: US 09/542,497  
 DATE: 2000-04-03  
 ION NUMBER: US 09/826,312  
 DATE: 2001-04-03  
 ION NUMBER: US 10/091,174  
 DATE: 2002-03-04  
 ION NUMBER: US 10/091,139  
 DATE: 2002-03-04  
 ION NUMBER: US 10/119,460  
 DATE: 2002-03-26  
 ION NUMBER: US 10/109,767  
 DATE: 2002-03-26  
 ION NUMBER: US 60/291,836  
 DATE: 2001-05-18  
 ID NOS: 27  
 natin version 3.1

○ sapiens

Query Match 100.0%; Score 616; DB 14; Length 108;  
 Best Local Similarity 100.0%; Pred. No. 8.9e-61;  
 Matches 0; Mismatches 0; Indels 0;

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 Db 1 MAAMDDVDTPSGTNSGAGKRRFEVKKNNAVALWANDIVDNCACIRHIMDLCTECANO 60

Qy 61 ASATSECTVAVGVCNHAAPHFC1SRMLKTRQVCPLDNREWEFOKYGH 108  
 Db 61 ASATSECTVAVGVCNHAAPHFC1SRMLKTRQVCPLDNREWEFOKYGH 108

RESULT 4  
 US-10-424-599-148916  
 ; Sequence 148916, Application US/10424599  
 ; Publication No. US2004031072A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J  
 ; APPLICANT: Kovacic, David K  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules  
 ; FILE REFERENCE: 38-21(53223) B  
 ; CURRENT APPLICATION NUMBER: US/10/424,599  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 285684  
 ; SEQ ID NO: 148916  
 ; LENGTH: 118  
 ; TYPE: PRT  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_105494C.1.pep

US-10-424-599-148916

Query Match 84.2%; Score 518.5; DB 12; Length 118;  
 Best Local Similarity 80.3%; Pred. No. 6.9e-50;  
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 Db 2 ATLDSDTVFPGAEASSAGPSSSTKKPKRFKIKKNNAVSLWDIVDNCACIR

Qy 52 LC1ECQANQASATSECTVAVGVCNHAAPHFC1SRMLKTRQVCPLDNREWEFOKY  
 Db 62 LC1ECQANQASATSECTVAVGVCNHAAPHFC1SRMLKTRQVCPLDNREWEFOKY

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 US-10-424-599-221431  
 ; Sequence 221431, Application US/10424599  
 ; Publication No. US2004031072A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J  
 ; APPLICANT: Kovacic, David K  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules  
 ; FILE REFERENCE: 38-21(53223) B  
 ; CURRENT APPLICATION NUMBER: US/10/424,599  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 285684  
 ; SEQ ID NO: 221431  
 ; LENGTH: 152  
 ; TYPE: PRT  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_419822C.1.pep

US-10-424-599-221431

○ sapiens

riaty 82.2%; Score 506.5; DB 12; Length 152;  
Pred. No. 1.9e-48;  
nservative 4; Mismatches 10; Indels 9; Gaps 2;  
Query Match 50.8%; Score 313; DB 12; Length 75;  
Best Local Similarity 81.7%; Pred. No. 3.1e-27;  
Matches 58; Conservative 0; Mismatches 11; Indels 2; Gc  
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NQASATSECTIVAWGVCNHAFFHCISRWLKTRQVCPLDREWEFQKYGH 108  
NQASATSECTIVAWGVCNHAFFHSISRWLKTRQVCPLDNSEWEFQKYGH 152

5 Application US/10424599  
S2004031072A1  
ON:  
sa Thomas J  
lic David K  
Yihua  
Yongwei  
ON: Soy Nucleic Acid Molecules and Other Molecules Associated With  
ON: Plants and Uses Thereof for Plant Improvement  
3.8-21(53223)B  
ION NUMBER: US/10/424,599  
ATE: 2003-04-28  
NOS: 285684  
ne max  
(106)  
ON: unsure at all Xaa locations  
ON: Clone ID: PAT\_MRT3847\_105493C.1.pep  
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riaty 68.3%; Score 420.5; DB 12; Length 106;  
nservative 5; Mismatches 8; Indels 23; Gaps 4;  
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6 Application US/10424599  
S2004031072A1  
ON:  
sa Thomas J  
lic David K  
Yihua  
Yongwei  
ON: Soy Nucleic Acid Molecules and Other Molecules Associated With  
ON: Plants and Uses Thereof for Plant Improvement  
3.8-21(53223)B  
ION NUMBER: US/10/424,599  
ATE: 2003-04-28  
NOS: 285684  
ne max

FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_49727C.1.pep  
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Best Local Similarity 81.7%; Pred. No. 3.1e-27;  
Matches 58; Conservative 0; Mismatches 11; Indels 2; Gc  
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Db 58 NREWEFQKYGH 108  
QY 65 NSEWEFQKYGH 75  
Db  
RESULT 8  
US-09-764-864-826  
; Sequence 826, Application US/09764864  
; Patent No. US20020132753A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; CURRENT APPLICATION NUMBER: US/09/764,864  
; FILE REFERENCE: PT223  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1792  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 826  
; LENGTH: 118  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-864-826  
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Best Local Similarity 50.5%; Pred. No. 1.1e-24;  
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Db 25 SGSKSG-GDKMEFLRKWNAVALMAMSDVCDCAICRNQDACLRCQAEK--KQEK  
QY 71 AWGVCNHAFFHCISRWLKTRQVCPLDNSEWEFQKYG 107  
Db 81 VVGECHNSFHINCCMSLWQKQNNRCPQDQWPWVQRTG 117  
RESULT 9  
US-09-764-864-1285  
; Sequence 1285, Application US/09764864  
; Patent No. US20020132753A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; CURRENT APPLICATION NUMBER: US/09/764,864  
; FILE REFERENCE: PT223  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1792  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 1285  
; LENGTH: 131  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: SITE  
; LOCATION: (11)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino  
US-09-764-864-1285  
Query Match 47.4%; Score 292; DB 9; Length 131;



7:44:23 2004

us-09-541-462b-2.apr14.rapp

3: 2002-03-04  
E: 2002-03-26  
N NUMBER: US 10/109,460  
E: 2002-03-26  
N NUMBER: US 10/108,767  
E: 2001-05-18  
NOS: 27  
In version 3.1

8: sapiens

Q: 46.6%; Score 287; DB 14; Length 113;  
rity 49.5%; Pred. No. 3.7e-24;  
nservative 14; Mismatches 31; Indels 4; Gaps 2;

V: GAGKKBPEVKKNAVALWADIVDNCAICRNHIMDLICEQANQASATSEECTY 70  
G-GDXNFSLKEKWNPVAMWSMVECDTCIAICRVQVMDAICLRCQAEN--RQEDCVW 75  
NHAFHFCISERWLKTRQVCPLDNREWEFQKVG 107  
NHSFNCNCMSLWVKQNMRCPLCQDDMIVQRIG 112

8 Application US/10424599  
S2004031072A1  
ON:

sa Thomas J  
Yihua  
Yongwei

Yongwei  
ON: Soy Nucleic Acid Molecules and Other Molecules Associated With  
ON: Plants and Uses Thereof for Plant Improvement  
38-21(53223)B  
ION NUMBER: US/10/424,599  
ATE: 2003-04-28  
NOS: 285684

ne max

e

[68)  
ON: unsure at all Xaa locations

ON: Clone ID: PAT\_MRT3847\_60814C.1.pep  
8

Q: 45.8%; Score 282; DB 12; Length 68;  
rity 69.1%; Pred. No. 7.9e-24;  
nservative 9; Mismatches 12; Indels 0; Gaps 0;  
AVALWADIVDNCAICRNHIMDLICEQANQASATSEECTYARGVQHAFHFC 83  
[ADGIWANDLVNGCAICRHHYMDLCUCLANQASISSECTYARGVQHNLHLC 60  
KTR 91  
KTR 68

9 Application US/10424599  
S2004031072A1  
ON:

17:44:24 2004

us-09-541-462b-2.apr14.rni

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c search, using frame\_plus\_p2n model

il 14, 2004, 08:53:35 ; Search time 68 Seconds  
(without alignments)  
881.393 Million cell updates/sec

09-541-462B-2

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SUM62

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pop 10.0 , Ygapext 0.5

pop 6.0 , Rgapext 7.0

op 6.0 , Delext 7.0

:709 seeds, 27747546 residues

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ith: 0

ith: 2000000000

minimum Match 0%

maximum Match 100%

string first 45 summaries

ters:

model=xnb

pool/US0941462/runat\_14042004\_074618\_23078/app/query.fasta\_1\_263

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its -SPART=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi

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:=pro -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=20000000000

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:10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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/cgn2\_6/prodata/2/ina/PCMB\_COMB.seq:\*

/cgn2\_6/prodata/2/ina/backfiles.seq:\*

the number of results predicted by chance to have a score higher than or equal to the score of the result being printed, is determined by analysis of the total score distribution.

ALIGNMENTS

RESULT 1

US-09-780-016-27

Sequence 27, Application US/097800016

Patent No. 6509456

GENERAL INFORMATION

APPLICANT: Donoho, Gregory

APPLICANT: Scoville, John

APPLICANT: Turner, C. Alexander Jr.

APPLICANT: Friedrich, Glenn

APPLICANT: Abuin, Alejandro

APPLICANT: Zambrowicz, Brian

APPLICANT: Sands, Arthur T.

TITLE OF INVENTION: Polynucleotides Encoding the Same

FILE REFERENCE: LEX-0132-USA

CURRENT APPLICATION NUMBER: US/09/780,016

CURRENT FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: US 60/181,294

PRIOR FILING DATE: 2000-02-11

NUMBER OF SEQ ID NOS: 27

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 27

LENGTH: 3208

TYPE: DNA

ORGANISM: homo sapiens

US-09-780-016-27

Alignment Scores:

Pred. No.: 4e-53

Length: 3208

Matches: 88

Score: 501.50

Percent Similarity: 95.70%

Best Local Similarity: 94.62%

Query Match: 81.41%

DB: 4

Gaps: 1

US-09-541-462B-2 (1-108) x US-09-780-016-27 (1-3208)

SUMMARIES

SEQ ID	Length	DB	ID	Description
1.4	3208	4	US-09-780-016-27	Sequence 27, Appl
1.0	463	4	US-09-621-976-15180	Sequence 15, Appl
2.6	301	4	US-09-313-294A-492	Sequence 492, Appl
5.2	648	4	US-09-599-3,60B-27	Sequence 27, Appl
4.9	738	4	US-09-833-3,81-1814	Sequence 1814, Appl
2.5	534	4	US-09-621-976-1817	Sequence 1817, Appl
2.1	671	4	US-09-621-976-1854	Sequence 1854, Appl
2.1	539	4	US-09-621-976-2051	Sequence 2051, Appl
1.0	654	4	US-09-621-976-1945	Sequence 1945, Appl
4.8	940	4	US-09-023-655-667	Sequence 667, Appl
4.8	1839	4	US-09-828-303-10	Sequence 10, Appl
4.6	1690	4	US-09-828-303-2	Sequence 2, Appl



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us-09-541-462b-2.apr14.rni

1 NOS: 123  
.pm

LOCATION: (1)..(738)  
OTHER INFORMATION: n = A, T, C or G  
US-09-833-381-1814

Sapiens  
438  
1 signal  
617  
1 site  
648

15-  
Qy : LOCATION: (1)..(738)  
OTHER INFORMATION: n = A, T, C or G  
US-09-833-381-1814  
Alignment Scores:  
Pred. No.: 6.1e-18 Length: 738  
Score: 215.00 Matches: 35  
Percent Similarity: 55.79% Conservative: 18  
Best Local Similarity: 36.84% Mismatches: 34  
Query Match: 34.90% Indels: 8  
DB: 4 Gaps: 2  
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Qy : 16 GlyAlaGlyLysLysArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAl  
DB: 572 GGCTCTGCTGCCATGAGGTGAGATTAAGTGTGAAACGGGGTGGCCTACTGGCT  
Qy : 36 AspIleValValAspAsnCysAlaLysCysArgAsnHisIleMetAspLeuCysII  
DB: 512 GTGCCAACGATGAGANCTGTCATCTGAGATGCCATTAAACGATGCTGCC  
Qy : 56 CysGlnAlaAsnGlnAlaSerAlaThrSerGluGlucySThrValAlaTrpGlyVa  
DB: 452 TCGAAG-----GTGCCGGCGGAGACTGCCCTGGCTGGCTGGGCCA  
Qy : 76 AsnHisAlaPheHisPheHisCysSilesArgTIPLeuLysThrArgGlnVal--  
DB: 407 TCCCACTGCTCCACATGCACTTCAGTCAGTGGCTCAAGTGGCTCAAGCAGCTGCA  
Qy : 94 --CysProLeuAspAsnArgGlutPheGlnLysTyrGly 1.07  
DB: 347 CACTGCCCATGTGCCAGGATCAAGGTGAGGC 3.03  
RESIDUE 6  
US-09-621-976-1817  
Sequence 1817, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Robert S. Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET 054P02  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pml  
; SEQ ID NO: 1817  
; LENGTH: 534  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE: CDS  
; NAME/KEY: CDS  
; LOCATION: 106..441  
; NAME/KEY: sig peptide  
; LOCATION: 106..43  
; OTHER INFORMATION: Von Heijne matrix  
; OTHER INFORMATION: score 4.40000009536743  
; OTHER INFORMATION: seq GILILIPHAGADG/CW  
US-09-021-976-1817  
Alignment Scores:  
Prod. No.: 2.6e-16 Length: 534  
Score: 200.50 Matches: 42  
Percent Similarity: 51.72% Conservative: 18  
Best Local Similarity: 36.21% Mismatches: 41  
Query Match: 32.55% Indels: 16  
DB: 4 Gaps: 3  
US-09-541-462B-2 (1-108) x US-09-621-976-1817 (1-534)  
Qy : 2 AlaAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLys  
sapiens  
feature



3  
ON: Milne Edwards, J. B.  
RT: S.  
DANO: J.Y.  
ON: ESTS and Encoded Human Proteins.  
GENSET: 0541R2  
ATION NUMBER: US/09/621,976  
ATE: 2000-07-21  
NOS: 19335  
.pm





07:44:24 2004

usb-09-541-462b-2.apr14.rni

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SS:  
JC  
April 14, 2004, 09:05:24

101

SS:  
JC

07:44:24 2004

us-09-541-462b-2.apr14.rnpb

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.c. search, using frame\_plus\_p2n model

:il 14, 2004, 09:03:15 ; Search time 333 Seconds

(without alignments)

1410.091 Million cell updates/sec

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:ipop 10.0 , Ygapext 0.5

:ipop 6.0 , Egapext 7.0

:lop 6.0 , Delect 7.0

:4225 seqs, 217389344 residues

: satisfying chosen parameters:

5628450

:Jth: 0

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:minimum Match 0%

:maximum Match 100%

:string first 45 summaries

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:locations NA -QMTI=Fastap -SUFFIX=april\_rnpb -MINNATCH=0.1

: -END=1 -MATRIX=blocnum62

: -LIST=45 -DOCALIGN=200 -THR SCORE=PCT -MAX=100

: -L MODE=LOCAL -OUTFMT=ptx -NORM=ext -HEAPSIZE=500 -MINLEN=0

: -USER@US0541462 @runat\_14042004\_074619\_23106

: ) MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOC=100

: JUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPEXT=0.5

: =7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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: r than or equal to the score of the result being printed,  
: ed by analysis of the total score distribution.

## SUMMARIES

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2	616	100.0	433	15	US-10-242-335A-35025
3	616	100.0	453	12	US-10-242-335A-35025
4	616	100.0	453	12	US-10-085-783A-39933
5	616	100.0	467	15	US-10-085-515A-39933
6	616	100.0	467	15	US-10-085-515A-57254
7	616	100.0	471	15	US-10-242-335A-57254
8	616	100.0	471	12	US-10-085-783A-56068
9	616	100.0	472	12	US-10-242-335A-56068
10	616	100.0	472	15	US-10-242-335A-6692
11	616	100.0	523	12	US-10-085-783A-6692
12	616	100.0	523	15	US-10-24-515A-4692
13	611	99.2	476	10	US-09-118-905-17191
C	607	98.5	4543	14	US-10-198-046-11311
C	603	97.9	430	12	US-10-085-783A-54751
C	603	97.9	430	15	US-10-242-335A-54751
C	596	96.8	380	9	US-09-360-352-4677
C	573	93.0	5347	14	US-10-24-965-99
C	554	89.9	5111	12	US-10-085-783A-52747
C	545	88.5	468	12	US-10-24-515A-47656
C	545	88.5	468	15	US-10-24-515A-47656
22	522.5	84.8	619	12	US-10-14-522-564-6767
23	518.5	84.2	824	12	US-10-424-589-6074
24	515.5	83.7	390	9	US-09-770-791-20
25	505.5	82.7	486	15	US-10-085-783A-52747
26	509.5	82.7	486	15	US-10-242-515A-48516
27	506.5	82.2	818	12	US-10-124-539-7889
28	501.5	81.4	3208	9	US-09-700-016-27
29	501.5	81.4	3208	14	US-10-214-811-27
30	493	80.0	475	12	US-10-085-783A-50604
31	493	80.0	475	15	US-10-242-515A-50604
32	480	77.9	300	12	US-10-085-783A-51405
33	480	77.9	300	15	US-10-242-515A-48516
34	432	70.1	464	12	US-10-085-783A-58811
35	432	70.1	464	15	US-10-242-515A-58211
36	424.5	68.9	358	12	US-10-062-727-181
37	411	66.7	450	15	US-10-242-515A-31405
38	411	66.7	450	15	US-10-242-515A-31405
39	408	66.2	370	12	US-10-085-783A-19847
40	408	66.2	370	15	US-10-14-522-564-19847
41	407.5	66.2	462	12	US-10-424-589-6073
42	396	64.3	439	10	US-09-918-995-14771
43	377	61.2	273	12	US-10-085-783A-46883
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45	361	58.6	325	12	US-10-085-783A-53800

## ALIGNMENTS

RESULT 1  
US-10-085-783A-43377  
Sequence 43377, Application US/10085783A  
Publication No. US2004037841A1  
GENERAL INFORMATION  
APPLICANT: Chondrocare Inc.  
TITLE OF INVENTION: Compositions and Methods Relating to Osteoearth  
FILE REFERENCE: 421/2002  
CURRENT APPLICATION NUMBER: US/10/085-783A  
CURRENT FILING DATE: 2002-02-28  
PRIOR APPLICATION NUMBER: US 60/315,340  
PRIOR FILING DATE: 2001-07-13  
PRIOR APPLICATION NUMBER: US 60/275,017  
PRIOR FILING DATE: 2001-03-12  
PRIOR APPLICATION NUMBER: US 60/271,955  
PRIOR FILING DATE: 2001-02-28  
NUMBER OF SEQ ID NOS: 58994  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 43377  
LENGTH: 433  
TYPE: DNA  
ORGANISM: Human  
US-10-085-783A-43377



isCysteileSerArgTrpLeuIysThrArgGlnValCysProLeuAspAsnArgGlu 100  
 ATGGATCTCTCGCTGGCTAAACAGACAGGTTGTCCATTGACACAGAGAG 323  
 IupheGlnIlysTyrglyHis 108  
 ATTCCAAAGTATGGCAC 347

25 Application US/10242535A  
 ION: US20040101663A1

droGene Inc.  
 w, C.C.  
 ION: Compositions and Methods Relating to Osteoarthritis  
 4231/2005  
 ION NUMBER: US/10/242,535A  
 DATE: 2002-09-12  
 ION NUMBER: US 10/085,783  
 ON NUMBER: US 10/085,783  
 TE: 2002-02-28  
 ON NUMBER: US 60/305,340  
 TE: 2001-07-13  
 ON NUMBER: US 60/275,017  
 TE: 2001-03-12  
 ON NUMBER: US 60/271,955  
 TE: 2001-02-28  
 D NOS: 58994  
 t in version 3.2

25  
 isCysteileSerArgTrpLeuIysThrArgGlnValCysProLeuAspAsnArgGlu 100  
 ACTGCACTCTGGCTGGCTAAACAGACAGGTTGTCCATTGACACAGAGAG 323  
 IupheGlnIlysTyrglyHis 108  
 ATTCCAAAGTATGGCAC 347

33 Application US/10085783A

Publication No. US20040037841A1  
 GENERAL INFORMATION:  
 APPLICANT: ChondroGene Inc.  
 TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthr  
 FILE REFERENCE: 4231/2002  
 CURRENT APPLICATION NUMBER: US/10/085,783A  
 CURRENT FILING DATE: 2002-02-28  
 PRIOR APPLICATION NUMBER: US 60/305,340  
 PRIOR FILING DATE: 2001-07-13  
 PRIOR APPLICATION NUMBER: US 60/275,017  
 PRIOR FILING DATE: 2001-03-12  
 PRIOR APPLICATION NUMBER: US 60/271,955  
 PRIOR FILING DATE: 2001-02-28  
 NUMBER OF SEQ ID NOS: 5894  
 SOFTWARE: PatentIn version 3.2  
 SEQ ID NO: 39933  
 LENGTH: 467  
 TYPE: DNA  
 ORGANISM: Human  
 US-10-085-783A-39933

Alignment Scores:  
 Qy 1 MetalAlaAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyL  
 Db 20 ATGGGGCAGGGATGGATAACCCGAGCGCACAAACGGGGCGAA  
 Qy 21 ArgPheGluValIysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleAlv  
 Db 80 CGCTTGAGTGAAAAGGGAAATGGATGCGCTGGGCTGGATATTGCGT  
 Qy 41 AspCysAlaLeuCysArgAsnHisIleMetAspIleCysIleGluCysGlnAlaAf  
 Db 140 AACATGCCCATTCTCGAGACCACTATTGGATCTTGGATAGATGTCAGCTAA  
 US-09-541-462B-2 (1-108) x US-10-085-783A-39933 (1-467)

Qy 1  
 Db 20  
 Qy 21  
 Db 80  
 Qy 41  
 Db 140  
 Qy 61  
 Db 200  
 Qy 81  
 Db 260  
 Qy 101  
 Db 320

RESULT 6  
 US-10-242-535A-39933  
 Sequence 39933 Application US/10242535A  
 Publication No. US20040101663A1  
 GENERAL INFORMATION:  
 APPLICANT: ChondroGene Inc.  
 APPLICANT: Liwei, C.C.  
 FILE REFERENCE: 4231/2005  
 CURRENT APPLICATION NUMBER: US/10/242,535A  
 CURRENT FILING DATE: 2002-09-12  
 PRIOR APPLICATION NUMBER: US 60/305,340  
 PRIOR FILING DATE: 2001-07-13  
 PRIOR APPLICATION NUMBER: US 60/275,017  
 PRIOR FILING DATE: 2001-03-12

ITION NUMBER: US 60/271, 955  
 DATE: 2001-02-28  
 ID NOS: 58994  
 ntin version 3.2

Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 12 Indels: 0  
 DB: 17 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-085-783A-57254 (1-471)

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 Db 17 ATGGCGCACGATGATGGATAACCCAGCAGAACACGGCGGGCAACAGGGCGGGC.  
 Qy 21 ArgPheGluValLysLysTrpAspAlaLeuTrpAlaTrpAspIleVal.  
 Db 77 CGCTTGAACTGAAAGTGAATGCAATGCCCTGGCCCTGGGATATTGTG.  
 Qy 41 AsnCysAlaLleCysArgAsnHisIleMetAspLeuCysIleGluCysAlaAla.  
 Db 137 AACGTGCCATCTGGGACCAATATGGATCTTGATAGATGTAAGCT.  
 Qy 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAla.  
 Db 197 GCGTCGCPACTCTGAAAGGTGACTGTGCAAGGGAGTCGTCATGCT.  
 Qy 81 PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsn.  
 Db 257 TTCCACTGATCTCTGGCTGCTGGCTCAAACACGACAGGTGTCATGGACAAAC.  
 Qy 101 TrpGluPheGlnLysTyrGlyHis 108  
 Db 317 TGGGATTCAAAGTATGGCAC 340  
 RESULT 8  
 US-10-242-535A-57254 ; Sequence 57254, Application US/10242535A  
 ; Publication No. US2004013663A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ChondroGene Inc.  
 ; ATTORNEY: Liew, C. C.  
 ; TITLE OF INVENTION: Compositions and Methods Relating to Osteoart.  
 ; FILE REFERENCE: 4231/2005  
 ; CURRENT APPLICATION NUMBER: US/10/242 , 535A  
 ; CURRENT FILING DATE: 2002-09-12  
 ; PRIOR APPLICATION NUMBER: US 10/085 , 783  
 ; PRIOR FILING DATE: 2002-02-28  
 ; PRIOR APPLICATION NUMBER: US 60/305 , 340  
 ; PRIOR FILING DATE: 2001-07-13  
 ; PRIOR APPLICATION NUMBER: US 60/275 , 017  
 ; PRIOR FILING DATE: 2001-03-12  
 ; PRIOR APPLICATION NUMBER: US 60/271 , 955  
 ; NUMBER OF SEQ ID NOS: 58994  
 ; SEQ ID NO 57254  
 ; SOFTWARE: PatentIn version 3.2  
 ; LENGTH: 471  
 ; TYPE: DNA  
 ; ORGANISM: Human  
 ; DB: US-10-242-535A-57254  
 Alignment Scores:  
 Pred. No.: 2.73e-75 Length: 471  
 Score: 616.00 Matches: 108  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 Gaps: 0  
 US-09-541-462B-2 (1-108) x US-10-242-535A-57254 (1-471)  
 Qy 1 MetAlaAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGly  
 Db 17 ATGGCGAGCGATGGATGGATAACCCAGCAGAACACGGCGGGCAACAGGGCGGGC.  
 Qy 21 ArgPheGluValLysLysTrpAspAlaLeuTrpAlaTrpAspIleVal

61 AlaserAlaThrSerGluCysThrValAlaThrGlyValCysAsnHisAlaP  
62 200 GCGTCGGTACTGAGAGTACTGTGATGGGGTCTGTAACCATGCTT

63 81 PheHisCysIleSerAspIleLeuCysGlnAlaAsnGln 60  
64 260 TCCACGTCATCTGGCAAAACAGAGCAGTGTGCTGGCATGGAAACA  
65 101 TrpGluPheGlnLysTyrGlyHis 108  
66 320 TGGAAATCCAAAGTGGCAC 343

RESULT 10  
US-10-242-535A-56068  
Sequence 56068, Application US/10242535A  
Publication No. US20040013663A1  
GENERAL INFORMATION:  
APPLICANT: ChondroGene Inc.  
APPLICANT: Liew, C.C.  
TITLE OF INVENTION: Compositions and Methods Relating to Osteoart:  
FILE REFERENCE: 4231/2005  
CURRENT APPLICATION NUMBER: US/10/242-535A  
PRIOR APPLICATION NUMBER: US 10/085,783A  
CURREN T FILING DATE: 2002-09-12  
PRIOR FILING DATE: 2002-02-28  
PRIOR APPLICATION NUMBER: US 60/305,340  
PRIOR FILING DATE: 2001-07-13  
PRIOR APPLICATION NUMBER: US 60/275,017  
PRIOR FILING DATE: 2001-03-12  
PRIOR APPLICATION NUMBER: US 60/271,955  
PRIOR FILING DATE: 2001-02-28  
NUMBER OF SEQ ID NOS: 58994  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO: 56068  
LENGTH: 472  
TYPE: DNA  
ORGANISM: Human  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (437)..(437)  
OTHER INFORMATION: n is a, c, g, or t  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (455)..(455)  
OTHER INFORMATION: n is a, c, g, or t  
US-10-242-535A-56068

Alignment Scores:  
Pred. No.: 2.74e-75 Length: 472  
Score: 616.00 Matches: 108  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indexes: 0  
DB: 15 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-242-535A-56068 (1-472)

QY 1 MetAlaAlaAlaAlaMetAspPvaIAspThrProSerGlyThrAsnSerGlyAlaGly  
S 20 ATGGCGCAGGGATGATGTGCAATCCCCGGGGACCAAAAGCGCGGCGGCAAA  
S 21 ArgPheGluValLysLysIlePAsnAlaValAlaLeuTrPAlaTrPAspIleValVa  
S 80 CGCTTGAACTGAAATGCAAGAACATATGAGTGCATGAAATGCAAGATTCAGCTTAA  
QY 41 AsnCysAlaLeuCysArgAspHisIleMetAspLeuCysIleGluCysGlnAlaAlaS  
Db 140 AACGTGCGCATCTGCAGAAACACATATGGATCTGACATGAAATGCAAGCTTAA  
QY 61 AlaserAlaThrSerGluCysThrValAlaThrGlyValCysAsnHisAlaP  
Db 200 GCGTCGGTACTGAGAGTACTGTGATGGGGTCTGTAACCATGCTT

67 68 Application US/10085783A  
US20040037841A1  
ION:  
w, C.C.  
droene Inc.  
ION: Compositions and Methods Relating to Osteoarthritis  
421/2002  
ION NUMBER: US/10/085,783A  
DATE: 2002-02-28  
ON NUMBER: US 60/305,340  
TE: 2001-07-13  
ON NUMBER: US 60/275, 017  
TE: 2001-03-12  
ON NUMBER: US 60/271,955  
TE: 2001-02-28  
D NOS: 58994  
tin version 3.2  
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HisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100  
 CACTGGATTCCTGGTCAAAACACAGTCATGGAAACAGAGG 319

GluPheGlnLysTrpGlyHis 108  
 GAAATTCAAAGATGGCAC 343

5292 Application US/10085783A  
 US20040037841A1  
 ATION: AndroGene Inc.  
 Lew, C.C.  
 VITION: Compositions and Methods Relating to Osteoarthritis  
 TION NUMBER: US/10/085,783A  
 DATE: 2002-02-28  
 TION NUMBER: US 60/305,340  
 DATE: 2001-07-13  
 CITION NUMBER: US 60/275,017  
 DATE: 2001-03-12  
 TION NUMBER: US 60/271,955  
 DATE: 2001-02-28  
 ID NOS: 58994  
 inlin version 3.2 ,

ian ,292

3.16e-75 Length: 523  
 Y: 616.00 Matches: 108  
 rity: 100.00% Conservative: 0  
 100.00% Mismatches: 0  
 12 Gaps: 0

(1-108) x US-10-085-783A-46292 (1-523)

AlaAlaAlaMetAspValAspThrProSerGlyThrValAlaTrpGlyValCysAsnHisAla 20  
 GGGCAGCGATGATGGAAACCCGGACCAACAGGGGGAGAG 78

PheGluValLysLysTrpAsnAlaLeuTrpAlaLeuTrpAspIleValValAsp 40  
 TTGAACTGAAAAGTGAATGAGTAAGCTGCGATGATGTTGAT 138

CysAlaLeuCysArgAsnHistIleMetAspLeuCysIleGluCysSerAlaAsnGln 60  
 TGTGCCATCTGAGGAAACATTATGATCTTGGATAGAATGTCAGCTAACAGAG 198

SerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAla 80  
 TCCGCTATTCAGAAAGATGFACTGTCGCAAGGGGGTCTAACTGTGTTTCAC 258

HisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100  
 CACTGGATTCCTGGTCAAAACACAGACAGGTGTCATGGAAACAGAGG 318

GluPheGlnLysTrpGlyHis 108  
 GAAATTCAAAGATGGCAC 342

292 Application US/10242535A  
 US20040013663A1  
 TION: AndroGene Inc.

APPLICANT: Lieuw, C.C. ; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis ; FILE REFERENCE: 4231/2005 ; CURRENT APPLICATION NUMBER: US/10/242,535A ; CURRENT FILING DATE: 2002-09-12 ; PRIOR APPLICATION NUMBER: US 10/085,783 ; PRIOR FILING DATE: 2002-02-28 ; PRIOR APPLICATION NUMBER: US 60/305,340 ; PRIOR FILING DATE: 2001-07-13 ; PRIOR APPLICATION NUMBER: US 60/275,017 ; PRIOR FILING DATE: 2001-03-12 ; PRIOR APPLICATION NUMBER: US 60/271,955 ; PRIOR FILING DATE: 2001-02-28 ; NUMBER OF SEQ ID NOS: 58994 ; SOFTWARE: Patentin version 3.2 ; SEQ ID NO: 46292 ; LENGTH: 523 ; TYPE: DNA ; ORGANISM: Human ; US-10-242-535A-46292

US-09-541-462B-2 (1-108) x US-10-242-535A-46292 (1-523)

Qy 1 MetAlaAlaAlaMetAspValAspThrProSerGlyThrValAlaTrpGlyValCysAsnHisAla 19 ATGGGGCGAGCGATGGATCTGGATACTCCGAGCGACCAACAGGGGGCGCCGCGC ;

Db 3.16e-75 Length: 523  
 Pred. No.: 3.16e-75  
 Score: 616.00 Matches: 108  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 15 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-242-535A-46292 (1-523)

Qy 1 MetAlaAlaAlaMetAspValAspThrProSerGlyThrValAlaTrpGlyValCysAsnHisAla 19 ATGGGGCGAGCGATGGATCTGGATACTCCGAGCGACCAACAGGGGGCGCCGCGC ;

Db 199 GCGTCCGGCTACTTCGAGAGTCTACTTCGATGGGAGTCGTAACATGCT 199

Qy 21 ArgPheGluValLysLysTrpAspIleValAlaLeuTrpAlaLeuTrpAspIleVal 79 CGCTTTGAGTGAAGATGGAAATGGAGTGCCTCTGGCTGGATATTGTC 79

Db 41 AspCysAlaLeuCysArgAsnHisIleLeuAspLeuCysIleGluCysGlnAla 139 AACTGTGCCATCTGGAGAACCATATTGATCTTGGATAGATGTCAGCT 139

Qy 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAla 199 GCGTCCGGCTACTTCGAGAGTCTACTTCGATGGGAGTCGTAACATGCT 199

Db 199 GCGTCCGGCTACTTCGAGAGTCTACTTCGATGGGAGTCGTAACATGCT 199

Qy 81 PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsn 259 TTCCCACTGGATCTCTGGCTGGCTAACACGAGCAGGTGTCATGGACAA 259

Db 259 TTCCCACTGGATCTCTGGCTGGCTAACACGAGCAGGTGTCATGGACAA 259

Qy 101 TrpDluPheGlnLysTrpGlyHis 108  
 Db 319 TGGGAATTCCAAAGATATGGCRC 342

RESULT 13  
 US-09-518-995-17191  
 Sequence 17191, Application US/0918995  
 Publication No. US20030073623A1  
 GENERAL INFORMATION:  
 APPLICANT: Hyseq, Inc.  
 TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
 FROM VARIOUS cDNA LIBRARIES  
 FILE REFERENCE: 2411-756  
 CURRENT APPLICATION NUMBER: US/09/918,995  
 CURRENT FILING DATE: 2001-07-30  
 PRIOR APPLICATION NUMBER: US/09/235,076  
 PRIOR FILING DATE: 1999-01-20  
 NUMBER OF SEQ ID NOS: 38054  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO: 17191  
 LENGTH: 476  
 TYPE: DNA

sapiens  
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..(476)  
1. n = A, T, C or G

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aSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHis 80  
:GTCGGCTACTTCAGAAAGTGTACTGTGCACTGGGGTGTCTGTAACCATGCTTICA 260  
:HisCysIleSerArgGlyTrpLeuLysThrArgGlnValCysProLeuAspAsnArgG 100  
:CCACTGGATCTCTCGCTGGCTAAACACGACAGGTGTCCATTCAGACACAGAGA 320  
:pGluPheGlnIleTyrCysLysHis 108  
:GGAAATTCCAAAGTATGGCAC 345

April 14, 2004, 09:55:56  
cs